

# Hazardous Chemicals in Laboratories

WAC 296-828-100

## Scope

This Chapter applies to the laboratory use of hazardous chemicals. To determine if this Chapter applies to your workplace, use Table 1.

**Table 1**  
**Chapter Application**

<p>Are "Hazardous Chemicals" used?</p> <p><b>Definition:</b> <i>Hazardous chemicals</i> are any chemicals that have been shown (in at least one scientific study) to cause acute or chronic health effects in exposed employees. 296-839 WAC contains information that can be used to determine if a chemical is considered hazardous for this rule</p>	<p><b>YES</b> <b>NO</b></p> <p>↓</p>	<p>If any one of your answers brought you here, the Laboratory Standard <b>does not apply</b>, but other WISHA rules still apply.</p>
<p>Are the hazardous chemicals used in "laboratory scale operations"?</p> <p><b>Note:</b> Laboratory scale operations use containers that have been designed to be easily and safely handled by one person for reactions, transfers and other handling of the hazardous chemicals.</p> <p>Laboratory scale operations <b>are not</b>:</p> <ul style="list-style-type: none"> <li>- Capable of producing commercial quantities of materials</li> <li>- Part of a production process or simulate a production process</li> <li>- Part of a quality control process that directs how a process operates.</li> <li>- A simulation of a production process such as a pilot plant</li> </ul>	<p><b>YES</b> <b>NO</b></p> <p>↓</p>	
<p>Are multiple chemicals or multiple procedures used?</p>	<p><b>YES</b> <b>NO</b></p> <p>↓</p>	
<p>Are protective practices or protective equipment generally available for employee protection?</p> <p><b>Note:</b> Protective practices and equipment are those procedures, practices, or equipment accepted by laboratory health and safety experts as effective at controlling employee exposures to hazardous chemicals. For example laboratory fume hoods, chemical splash goggles, protective gloves, etc. <b>or</b> Those practices, procedures or equipment the employer can show are effective at controlling employee exposures to hazardous chemicals.</p>	<p><b>YES</b> <b>NO</b></p> <p>↓</p>	
<p>If your answers brought you here, the Laboratory Standard <b>applies</b> to your workplace.</p>		

– Continued–

<http://www.LNI.wa.gov/>

100-1

04/06

Scope





# Hazardous Chemicals in Laboratories

WAC 296-828-100

## Scope

WAC 296-828-100

### Scope (Continued)

#### IMPORTANT:

- When your laboratory operation is covered by this Chapter, and you use any of the substances in Table 2, the following applies:
  - The exposure limits and any requirement protecting employees from skin and eye contact in the rules listed in Table 2 will still apply.
  - Where the action level (or where no action level exists, the permissible exposure limit) is exceeded for a substance listed in Table 2, the exposure evaluation and medical surveillance requirements in the substance rule will still apply.
  - You aren't required to meet other requirements of the substance rule.
- To get the permissible exposure limits (PELs) for hazardous chemicals used in your laboratory, see Chapter 296-841 WAC, Respiratory Hazards.

– Continued–

# Hazardous Chemicals in Laboratories

WAC 296-828-100

## Scope

WAC 296-828-100

### Scope (Continued)

**Table 2**  
**WISHA Regulated Hazardous Chemicals**

2-Acetylaminofluorene
Acrylonitrile
Alpha-Naphthylamine
4-Aminodiphenyl
Arsenic (inorganic)
Asbestos
Benzene
Beta-Naphthylamine benzidine
Beta-Propiolactone
Bis-Chloromethyl ether
Butadiene
Cadmium
Coke ovens
Cotton dust
1, 2-Dibromo-3-chloropropane
3,3'-Dichlorobenzidine (and its salts)
4-Dimethylaminoazobenzene
Ethylene oxide
Ethyleneimine
Formaldehyde
Ionizing radiation
Lead
Methyl chloromethyl ether
4,4' Methylene bis (2 - chloroaniline)
Methylene chloride
Methylenedianiline
4-Nitrobiphenyl
N-Nitrosodimethylamine
Vinyl chloride

Scope

